

12-23-02

S12/272FC/ Receipt #6

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Rodric C. Fan, Anil Tiwari, Ramakrishna Tumuluri  
Assignee: At Road, Inc.  
Title: Wireless Device To Network Server Encryption  
Serial No.: 09/927,928 Filing Date: August 9, 2001  
Examiner: Unknown Group Art Unit: 2131  
Docket No.: M-11702 US

San Francisco, California  
December 20, 2002

COMMISSIONER FOR PATENTS  
Office of Initial Patent Examination  
Customer Service Center  
Washington, D.C. 20231

**REQUEST FOR CORRECTED FILING RECEIPT**

Dear Sir:

Applicants hereby request correction of the Official Updated Filing Receipt for the  
above-identified patent application as follows:

- ☐ 1. Correct the Title
- ☒ 2. Correct the spelling of the first named inventor
- ☐ 3. Correct information referencing related case
- ☐ 4. Correct Attorney Docket Number
- ☐ 5. Other:

This request is submitted for the following reasons:

The first named inventor on the Updated Filing Receipt is misspelled and should be  
changed from "Roderic" to "Rodric".

LAW OFFICES OF  
SKJERNEN MORRILL  
LLP

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Because this was not an error on the part of Applicant, Applicant believes no fee is required. However, the Commissioner is hereby authorized to charge any fee that may be required for this correction to Deposit Account No. 19-2386.

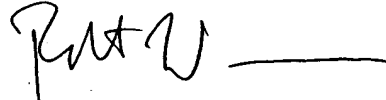
Attached is a copy of the Updated Filing Receipt having the above errors and the changes noted thereon, as well as copies of the Abstract, first page of the Specification and the original Filing Receipt. Applicant respectfully requests that a corrected Filing Receipt be issued.

If this action does not lead to issuance of a corrected Official Filing Receipt as requested, please contact the undersigned at (415) 217-6000.

EXPRESS MAIL LABEL NO:

EL 947 752 047 US

Respectfully submitted,



Robert D. Wasson  
Reg. No.40,218,

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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/927,928	08/09/2001	2131	701	M-11702 US	7	29	8

CONFIRMATION NO. 6041

## UPDATED FILING RECEIPT



\*OC000000007045193\*

Skjerven Morrill MacPherson LLP  
Suite 700  
25 Metro Drive  
San Jose, CA 95110

Date Mailed: 11/08/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Roderic C. Fan, Fremont, CA;  
Anil Tiwari, Palo Alto, CA;  
Ramakrishna Tumuluri, San Jose, CA;

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted 09/15/2001

Projected Publication Date: 02/13/2003

Non-Publication Request: No

Early Publication Request: No

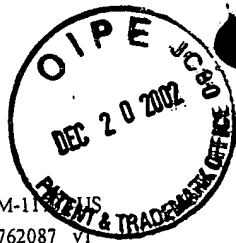
\*\* SMALL ENTITY \*\*

## Title

Wireless device to network server encryption

Preliminary Class

380



M-11  
762087 VI

## WIRELESS DEVICE TO NETWORK SERVER ENCRYPTION

Rodric C. Fan

Anil Tiwari

Ramakrishna Tumuluri

### 5 Abstract

A system and method are disclosed for providing encryption of location data transmitted from a wireless device to a wireline network server. In one embodiment, the wireless device encrypts a payload, adds a header to the payload to form a data packet, encrypts the payload and the header of the data packet, and transmits the encrypted data packet.

10



EXPRESS MAIL LABEL NO:

EL 701 021 859 US

WIRELESS DEVICE TO NETWORK SERVER ENCRYPTION

Rodric C. Fan

Anil Tiwari

Ramakrishna Tumuluri

5 Technical Field

The present invention relates to data encryption, and more specifically, the present invention relates to a system and method for encrypting communications between a wireless device and a wireline network server.

Background

10 In the past, wireless devices have communicated with network servers by transmitting data that traverses a wireless link from a wireless device to a base station, through a gateway, and over a wireline Wide Area Network (WAN) to a network server coupled to the WAN. Client computers on the WAN may then access the data from the network server over the WAN.

15 Conventionally, a wireless device packetizes the data to be transmitted and then encrypts the data packet before transmitting the data packet over a wireless link. The data packet encryption may be performed by using conventional wireless transmission systems including Cellular Digital Packet Data (CDPD). The CDPD wireless transmission system may employ RC4 (a well-known encryption method from RSA Data Security, Inc. of  
20 Redwood City, California).

Encryption of the data packet before the data packet traverses the wireless link reduces the ability of unauthorized third parties to tamper, listen, or interfere with the transmission of the data packet over the wireless link. Indeed, encryption provides improved privacy in such wireless communications by reducing the ability of  
25 unauthorized third parties to intercept and read wireless transmissions. In particular, such encryption generally limits the ability of third-parties to intercept and listen to the transmitted data, intercept and modify the transmitted data, or to engage in a practice



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09/927,928	08/09/2001	2131	636	M-11702 US	7	29	8

CONFIRMATION NO. 6041

FILING RECEIPT



\*OC00000006563797\*

Skjerven Morrill MacPherson LLP  
Suite 700  
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San Jose, CA 95110

Date Mailed: 09/17/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Rodric C. Fan, Residence Not Provided;  
Anil Tiwari, Residence Not Provided;  
Ramakrishna Tumuluri, Residence Not Provided;

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted 09/15/2001

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

\*\* SMALL ENTITY \*\*

Title

Wireless device to network server encryption

Preliminary Class

380